

MODEL

DSR-4550

COMMERCIAL INTEGRATED RECEIVER/
DECODER



Highlights Include:

- Gig-E output for easy connection to digital cable headend products
- Advanced Modulation support with 8PSK TurboCode
- Digital component video output (SDI) with embedded audio
- AES digital audio output
- ASI input/output
- 8 RF Inputs (L-Band)
- MPEG-2 Main Level@Main Profile
- DigiCipher® II MegaPipe+ Support
- Variable tuning from 4 MHz to 36 MHz
- Dolby® Digital and MPEG layer II audio processing
- VBI reinsertion SID/AMOL-II, NABTS and closed caption
- DigiCipher II conditional access control
- Quick disconnect screw terminals for easy installation
- 1RU chassis design
- Bypass video and audio inputs
- DTMF cue tones for local ad insertion
- 10/100 BaseT Ethernet port for SNMP monitoring and control

- DSM-CC Encapsulated IP data output
- Dedicated video diagnostics output
- Over-the-air software download capability

For more information regarding any of these features contact your Motorola sales representative.

The new DSR-4550 IRD from Motorola brings the latest technology advances from a recognized leader in satellite program delivery. Building on the DigiCipher II platform, the DSR-4550 IRD is affordable and easy to use. Its sleek packaging design fits in a standard 19" relay rack and requires only a single rack unit of space. The DSR-4550 is designed to deliver excellent video and audio performance.

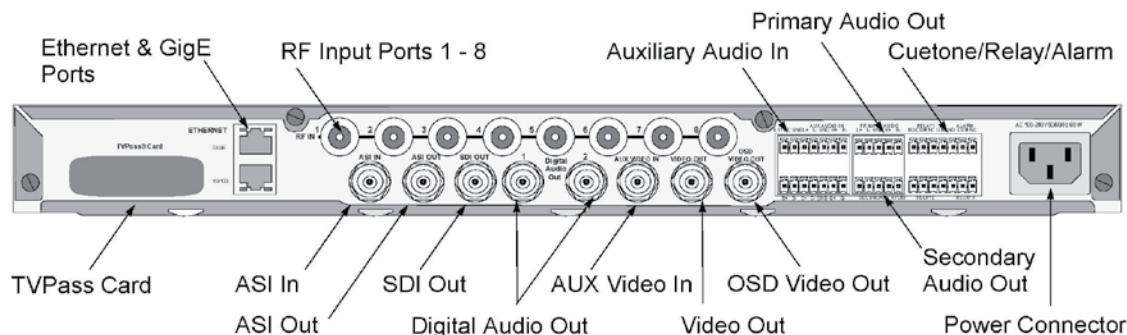
The DSR-4550 supports digital component video (SDI). The SDI output provides 2 channels of embedded audio to allow easy routing of video and audio through a cable facility. The discrete AES audio outputs can be used in combination with the SDI video without the need for audio de-embedding equipment. Dolby digital audio pass-through is available on both the SDI embedded audio and the discrete AES audio outputs.

Equipped with both ASI input/output and Gig-E output, the DSR-4550 is ready to connect easily to the rest of your headend equipment. The Gig-E port can be used to output a decrypted transport stream as well as encapsulated IP data while the 10/100 Base-T Ethernet connection allows for remote command/control capabilities via SNMP. With advanced modulation support, the DSR-4550 also supports 8PSK Turbo modulation.

SPECIFICATION SHEET

DSR-4550

TECHNICAL SPECIFICATIONS		SDI	
L-Band Input		Output Level:	800 mV, ± 80 mV
Input Frequency:	950 - 2150 MHz	Output Impedance:	75 Ω
Input Impedance:	75 Ω	Standard:	SMPTE-259M
Input Connectors:	Eight (8) F-type	Connector:	BNC
LNB Power Out		Digital Audio	
F-Connector:	16V DC min/450 mA	Standard:	AES
Port-to-Port Isolation:	40 db (minimum)	Connector:	BNC
		Number of Channels:	2
DigiCipher II Processing		Ethernet Output	
Modulation Modes:	OQPSK, QPSK, 8PSK turbocode	Formats:	10/100BaseT and Gig-E
QPSK Symbol Rates:	3.25, 4.88, 7.32, 9.76, 11.71, 14.63, 19.51, 29.27 Msps	Connectors:	Two (2) RJ-45
8PSK Turbo Symbol Rates:	1 to 30 Msps variable	ASI Input/Output	
QSPK FEC Rates:	5/11 (19.51 & 29.27 Msps only) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 7/8	Format:	Asynchronous serial interface
8SPK Turbo FEC Rates:	2/3 (1.92), 3/4 (2.05), 3/4 (2.11), 3/4 (2.19), 5/6 (2.30), 8/9 (2.40)	Transmission:	Data byte and packet
		Standard:	CENELEC EN 50083-9
		Connector:	BNC
Composite Video		Cue Tones	
Frequency Response (NTSC):	± 0.9 dB, 1 kHz - 4.2 MHz	Signal Type:	Differential output
Frequency Response (PAL):	± 0.9 dB, 1 kHz - 4.8 MHz	Signal Level:	0 dBm, ± 3 dB (600 Ω)/tone
Signal/Noise Ratio:	57 dB (min)	Connector:	Quick disconnect screw terminal
Differential Gain:	4.5% p-p (max) (10% to 90% APL)	Contact Closures	
Difference Phase:	4.5 deg. (max)	Number of Closures:	4 (1 alarm)
Output Impedance:	75 Ω	Type:	Form C
Output Level:	1.0 V p-p $\pm 10\%$	Physical	
Audio		Width:	18.9" (48cm)
Output:	2 stereo pair or 4 mono	Depth:	18.11" (46cm)
Output Level:	± 16.0 dBm, ± 1.0 dB into 600 Ω balanced load adjustable (0 to -15 dB)	Height:	1.65" (4.2cm)
Frequency Response:	± 1.0 dB, 20 Hz to 20 kHz	Weight:	12 lb (5kg) approx
Total Harmonic Distortion:	0.4% or better at 1 kHz	Power Input:	100-240 VAC, 50-60Hz, 60 W
Signal/Noise Ratio:	85 dB or better at 1 kHz RE: + 16 dBm, measured at 20 Hz to 20 kHz	Operating Temperature:	0 to 40C
Isolation, L/R:	80 dB at 1 kHz	Humidity:	95%, relative maximum
Impedance:	50 Ω	Other	
Connector:	Quick disconnect screw terminal	Limited Warranty:	One year
		Compliance:	UL listed/approved



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